



Water-Data Report 2008

01399820 CHAMBERS BROOK NEAR NORTH BRANCH, NJ

RARITAN RIVER BASIN

LOCATION.--Lat 40°37'26", long 74°39'47" referenced to North American Datum of 1983, Brachburg Township, Somerset County, NJ, Hydrologic Unit 02030105, at bridge on Love Road, 0.2 miles south from Somerset Airport access road, 0.6 miles above the confluence with North Branch Raritan River, and 1.7 miles northeast from Village of North Branch.

DRAINAGE AREA.--4.71 mi².

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 2007-08.

REMARKS.--Cooperative Network Site Descriptor: Statewide Status, NJ Department of Environmental Protection Watershed Management Area 8.

COOPERATION.--Physical measurements and samples for laboratory analyses were provided by personnel of the NJ Department of Environmental Protection. Determinations of dissolved ammonia, dissolved orthophosphate, and suspended residue were performed by the NJ Department of Health and Senior Services, Environmental and Chemical Laboratory.

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 1 of 5

[QC, quality control sample. Remark codes: <, less than; E, estimated.]

Date	Time	Sample medium and type	Turbdy white light, det ang 90+/-30 corrctd NTRU (63676)	UV absorb- ance, 254 nm, wat flt units /cm (50624)	UV absorb- ance, 280 nm, wat flt units /cm (61726)	Baro- metric pres- sure, mm Hg (00025)	Dis- solved oxygen, mg/L (00300)	Dis- solved oxygen, percent of sat- uration (00301)	pH, water, unfltrd field, std units (00400)
Nov									
07...	0745	Surface water, regular	4.2	.147	.110	763	10.1	83	7.9
Feb									
20...	0815	QC - Artificial, field blank	--	--	--	--	--	--	--
20...	0845	Surface water, regular	10	.134	.104	765	11.9	83	7.9
May									
29...	0800	Surface water, regular	2.1	.110	.082	768	8.0	77	7.8
Aug									
21...	0832	QC - Artificial, field blank	--	--	--	--	--	--	--
21...	0915	Surface water, regular	1.2	.104	.076	769	7.7	79	7.9

01399820 CHAMBERS BROOK NEAR NORTH BRANCH, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 2 of 5

[QC, quality control sample. Remark codes: <, less than; E, estimated.]

Date	Specific conductance, wat unf μ S/cm 25 degC (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)	Hard- ness, water, mg/L as CaCO3 (00900)	Calcium water, fltred, mg/L (00915)	Magnes- ium, water, fltred, mg/L (00925)	Potas- sium, water, fltred, mg/L (00935)	Sodium, water, fltred, mg/L (00930)	ANC, wat unf fixed end pt, lab, mg/L as CaCO3 (90410)	Chlor- ide, water, fltred, mg/L (00940)	Fluor- ide, water, fltred, mg/L (00950)	Silica, water, fltred, mg/L as SiO2 (00955)	Sulfate water, fltred, mg/L (00945)
Nov 07...	492	4.5	6.6	120	31.2	9.83	1.69	43.1	75	85.1	.12	11.1	24.7
Feb 20...	--	--	--	--	--	--	--	--	--	--	--	--	--
Feb 20...	654	2.5	.8	110	30.1	9.25	1.26	71.5	51	146	<.12	12.5	21.5
May 29...	593	15.0	13.5	160	42.0	13.1	1.49	49.9	87	106	E.11	11.0	31.7
Aug 21...	--	--	--	--	--	--	--	--	--	--	--	--	--
Aug 21...	605	23.0	16.8	170	44.6	13.7	1.98	48.7	99	106	E.09	4.5	33.3

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 3 of 5

[QC, quality control sample. Remark codes: <, less than; E, estimated.]

Date	Residue water, fltred, sum of consti- tuents mg/L (70301)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue total non- filter- able, mg/L (00530)	Ammonia + org-N, water, fltred, mg/L as N (00623)	Ammonia water, fltred, mg/L as N (00608)	Nitrate + nitrite water fltred, mg/L as N (00631)	Partic- ulate nitro- gen, susp, water, mg/L (49570)	Total nitro- gen, water, fltred, mg/L (00602)	Total nitro- gen, water, unfltred mg/L (00600)	Ortho- phos- phate, water, fltred, mg/L as P (00671)	Phos- phorus, water, fltred, mg/L as P (00666)	Phos- phorus, water, unfltred mg/L as P (00665)	Total carbon, suspnd sedimnt total, mg/L (00694)
Nov 07...	254	296	2	.28	.012	.46	<.04	.74	--	.018	.020	.029	.2
Feb 20...	--	--	--	--	--	--	--	--	--	--	--	--	--
Feb 20...	325	346	5	.20	<.010	.58	<.04	.78	--	.013	.014	.032	.2
May 29...	E309	325	2	.28	.026	.27	.05	.55	.60	.016	.023	.028	.6
Aug 21...	--	--	--	--	--	--	--	--	--	--	--	--	--
Aug 21...	E312	352	<1	.18	.028	E.02	<.04	E.21	--	.010	.016	.018	E.1

01399820 CHAMBERS BROOK NEAR NORTH BRANCH, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 4 of 5

[QC, quality control sample. Remark codes: <, less than; E, estimated.]

Date	Inor- ganic carbon, suspnd sedimnt total, mg/L (00688)	Organic carbon, suspnd sedimnt total, mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)	Arsenic water, fltrd, µg/L (01000)	Arsenic water, unfltrd µg/L (01002)	Barium, water, unfltrd recover- able, µg/L (01007)	Beryll- ium, water, unfltrd recover- able, µg/L (01012)	Boron, water, fltrd, µg/L (01020)	Boron, water, unfltrd recover- able, µg/L (01022)	Cadmium water, unfltrd µg/L (01027)	Chrom- ium, water, recover- able, µg/L (01034)	Copper, water, fltrd, µg/L (01040)	Copper, water, unfltrd recover- able, µg/L (01042)
	Nov 07...	<.04	.2	3.9	--	--	--	--	156	--	--	--	--
Feb 20...	--	--	--	<.06	--	--	--	--	--	--	--	<1.0	--
Feb 20...	<.04	.2	2.9	.26	E.46	39.6	<.04	83	93	.02	.61	--	1.8
May 29...	<.04	.6	3.5	--	--	--	--	161	--	--	--	--	--
Aug 21...	--	--	--	<.06	--	--	--	--	--	--	--	<1.0	--
Aug 21...	<.04	<.1	3.4	.40	E.44	52.8	<.04	199	223	E.01	<.40	--	2.0

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 5 of 5

[QC, quality control sample. Remark codes: <, less than; E, estimated.]

Date	Iron, water, unfltrd recover- able, µg/L (01045)	Lead, water, fltrd, µg/L (01049)	Mangan- ese, water, unfltrd recover- able, µg/L (01051)	Mangan- ese, water, unfltrd recover- able, µg/L (01055)	Mercury water, fltrd, µg/L (71890)	Mercury water, unfltrd recover- able, µg/L (71900)	Nickel, water, fltrd, µg/L (01065)	Nickel, water, unfltrd recover- able, µg/L (01067)	Selen- ium, water, unfltrd µg/L (01147)	Silver, water, unfltrd recover- able, µg/L (01077)	Zinc, water, fltrd, µg/L (01090)	Zinc, water, unfltrd recover- able, µg/L (01092)
	Nov 07...	--	--	--	--	--	--	--	--	--	--	--
Feb 20...	--	<.08	--	--	<.010	--	<.20	--	--	--	<1.8	--
Feb 20...	380	--	.63	38.0	--	<.010	--	.60	.09	<.02	--	3.7
May 29...	--	--	--	--	--	--	--	--	--	--	--	--
Aug 21...	--	<.08	--	--	<.010	--	<.20	--	--	--	<1.8	--
Aug 21...	49	--	.07	24.4	--	<.010	--	.38	.12	<.02	--	<2.0